TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-12-09** **Date: 14-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-09/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-06-17

AE Ward No 5
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Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.95	–
2	Finess by Air permeablity method (m^2/kg, Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-12-09** **Date: 11-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-09/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-06-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Prepared by
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-12-09** **Date: 15-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-09/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	12-06-17

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5320	6535	43.6	56.4	30-70
4	10 mm	6255	12790	85.3	14.7	10-35
5	4.75 mm	1637	14427	96.2	3.8	0-5
6	Pan	573	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-12-09** **Date: 15-06-17**

Sample ID No : 2017-06-12-09/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.26**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**13.34**	
3	Specific Gravity	**2.68**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.54**	_
6	Water Absorption(%)	**0.21**	_

Note:
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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-12-09** **Date: 15-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-09/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-06-17

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	%Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	423	423	8.5	91.5	90-100
3	10 mm	2537	2960	59.2	40.8	25-55
4	4.75 mm	1636	4596	91.9	8.1	0-10
5	Pan	404	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-12-09** **Date: 15-06-17**

Sample ID No : 2017-06-12-09/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.5**	
3	Specific Gravity	**2.58**	–
4	Bulk Density(Loose) (Kg/l)	**1.52**	–
5	Bulk Density(Compacted) (Kg/l)	**1.58**	–
6	Water Absorption(%)	**0.26**	–
7	Aggregate crushing Value(%)	**23.26**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.14**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

Ward No 5
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-06-12-09** **Date: 15-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-09/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 -1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test		12-06-17

Total weight taken 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	127	152	15.2	84.8	60-95	75-100	85-100	95-100
4	1.18 mm	275	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	137	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	219	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	154	937	93.7	6.3	0-10	0-10	0-10	0-15
8	Pan	63	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-12-09** **Date: 15-06-17**

Sample ID No : 2017-06-12-09/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.64	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.80	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-06-22-06** **Date: 27/06/2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-22-06/01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	20/06/2017	27/06/2017	149.22 X 150.54 X 149.22	22464	8.165	390.9	17.4	18.0
2	PCC	M20	20/06/2017	27/06/2017	150.65 X 150.34 X 151.32	22649	8.152	421.3	18.6	
3	PCC	M20	20/06/2017	27/06/2017	151.88 X 150.15 X 150.11	22805	8.149	408.2	17.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-22-06** **Date: 20/07/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.

Agency : M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/54/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-06-17

Sample ID No : 2017-06-22-06/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	22/06/2017	20/07/2017	151.21 X 150.11 X 150.34	22698	8.222	515.2	22.7	23.0
2	PCC	M20	22/06/2017	20/07/2017	150.26 X 150.32 X 150.11	22587	8.297	528.5	23.4	
3	PCC	M20	22/06/2017	20/07/2017	150.54 X 149.11 X 151.76	22447	8.243	514.0	22.9	

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-06-12-09** **Date: 14-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-09/04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	13-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.396	542	676	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.613	568	683	19.0%	Satisfactory	Satisfactory

Note:

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE ward No 5
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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-06-28-04** **Date: 29-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-06-17
Sample ID No	:	2017-28-06-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	28-06-17
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	335	335	3.0	97.0	95-100
22.4	2259	2594	23.6	76.4	60-80
11.2	2171	4765	43.3	56.7	40-60
4.75	2258	7023	63.8	36.2	25-40
2.36	1602	8625	78.4	21.6	15-30
0.6	610	9235	84.0	16.0	8-22
0.075	1465	10700	97.3	2.7	0-5

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Harshitha

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Authorized Signatory
Quality Manager

Ward No 5
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-07-14-02** **Date: 30-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-06-17
Sample ID No	:	2017-28-06-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	28-06-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.0	302.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	67.4	71.2
3	Weight of fraction retained 2.36mm sieve After giving 15 blows	C	234.2	229.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	1.5
5	Aggregate impact value	(B/A)*100	22.3	23.6
6	Aggregate impact value (Mean of two tests)	Pecentage	22.9	

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Authorized Signatory
Quality Manager

Prepared By:
Harshitha

Page 1/1
End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-28-04** **Date: 30-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No.363, 10th main, 1st cross, Sampige layout, Vijayanagara, Bangalore-560079
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-06-17
Sample ID No	:	2017-28-06-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	28-06-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.7%	
Combined Flakiness and Elongation Index for WMM	24.0%	

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Authorized Signatory
Quality Manager

Prepared By:
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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-06-30-04** **Date: 30-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	Improvements to Road and Drains at Kogilu Surrounding area in ward no.05, Byatarayanapura Sub Division.
Project Name	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer's Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-06-17
Sample ID No	:	2017-06-30-04-01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	30-06-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	69	60 to 70
2	Softening Point, °C	47	Min. 40°C
3	Ductility, cm	94	Min. 75cm
4	Flash point, °C	236	Min. 220°C
	Fire point, °C	240	

Note:
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Authorized Signatory
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-07-03-01**	**Date: 05-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.	
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.	
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-07-17	
Sample ID No	:	2017-07-03-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	03-07-17	

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.5	Combined Flakiness & Elongation Index is Maximum 30%	IS:2386 Part I
	Elongation Index	11.9		
Strength	Aggregate Impact Value	22.7	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.57	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.25	Maximum 2%	IS:2386 Part III

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-07-03-01** **Date: 05-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-01/01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	03-07-17
Oven Dry Weight(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	396	396	7.9	92.1	90-100
4.75	2178	2574	51.5	48.5	35-51
2.36	1128	3702	74.0	26.0	24-39
1.18	535	4237	84.7	15.3	15-30
0.3	308	4545	90.9	9.1	9-19
0.075	229	4774	95.5	4.5	3-8
PAN	226	5000	100.0	0.0	0

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-07-03-01** **Date: 05-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-01/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	03-07-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.19	10.48	8.2KN(min)
2	Marshal flow at 60°C, mm	3.15	3.12	2-4
3	Percent air Voids	3.79	3.95	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.38	13.45	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.32	70.0	65-75
6	Density, g/cc	2.24	2.25	–

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-07-03-01** **Date: 05-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-01/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	03-07-17

Type of Binder	:	80/100
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.0	Minimum Retained Coating 95%
2	97.5	2.5		
3	98.0	2.0		

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Harshitha

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Authorized Signatory
Quality Manager

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-07-10-01**	**Date: 12-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to road and drains at Kogilu Surrounding area in Ward no.05 Byatarayanapura Sub division.	
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.	
Customer Reference	:	BBMP/EE/BTP/WO/54/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	10-07-17	
Sample ID No	:	2017-07-10-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	10-07-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.00	5.20
4	Average percentage	%	5.10	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Lab ID : **CP-RW-2017-07-10-01** **Date: 12-07-17**

Sample ID No : **2017-07-10-01/01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	41	41	8.6	91.4	90-100
4.75	208	249	52.4	47.6	35-51
2.36	110	359	75.6	24.4	24-39
1.18	41	400	84.2	15.8	15-30
0.3	26	426	89.7	10.3	9-19
0.075	23	449	94.5	5.5	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	40	40	8.4	91.6	90-100
4.75	210	250	52.7	47.3	35-51
2.36	103	353	74.5	25.5	24-39
1.18	46	399	84.2	15.8	15-30
0.3	29	428	90.3	9.7	9-19
0.075	24	452	95.4	4.6	3-8

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE ward no 5
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com